

# Starrett®

TOOLS

DATA COLLECTION

SPC SOFTWARE ANALYSIS



To orchestrate a  
full state-of-the-art  
measuring program,  
you need...

**SPC PLUS**



## A Full Program From Starrett

For over 110 years the Starrett name has been synonymous with leadership in the design and manufacture of precision tools and gages for industry. Now, Starrett has considerably expanded its existing line of electronic measuring devices, processors and computers. The result is an exciting new way to conduct all your electronic gaging and quality control operations with a complete range of tools, software and data collection capabilities under the new Starrett SPC Plus banner. Electronic micrometers now join such existing products as height and depth gages, indicators and calipers to give you total measurement capabilities. The totally new 742 Advanced Data Collection System and associated 743 SPC Plus software give you one source for collecting, processing and transmitting readings from Starrett tools and devices from other suppliers. Starrett SPC Plus is more than a name—its an exciting new concept for meeting today's demanding QC requirements.

## The new Starrett 742 Advanced Data Collection System

The Starrett Advanced Data Collection System has all the capabilities you've always dreamed of, at a price that's hard to believe! **One unit can handle up to eight different measuring devices regardless of manufacturer, with the memory capacity to match.** It is packed with easy-to-use features that you need for SPC versatility and fast, accurate inspections. And there are several Starrett "SPC Plusses" that are exclusive. Rugged construction and a sealed keyboard and display area make the System a durable, dependable shop-floor ally. Operators appreciate its extreme ease of operation, ergonomic design and combination of large,

clear LCD display and audible signals for error-free inspections. Take a look at any competitive model and you'll see—the Starrett Advanced Data Collection System is everything a data collector should be, **and more.**

### Ten input sources for unmatched flexibility.

The Starrett Advanced Data Collection System simultaneously handles up to eight electronic gaging devices supplied by Starrett and/or other manufacturers. In addition, data can be entered manually through the simple keyboard and input from external sources via an RS 232 serial port.

- Eight module ports for Starrett SPC Plus electronic tools and those of other suppliers, in any combination
- Accepts Mitutoyo, Brown & Sharpe, Fowler, C.D.I., Federal, DataMyte, GageTalker and others
- Uses standard cables of all major suppliers of electronic gages and tools—a Starrett exclusive
- Readings can be entered from gages manually (keyboard) or from external programs



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**Finally, a truly easy-to-use collector.** The Starrett Advanced Data Collection System combines power and versatility in a compact, lightweight (2 lbs.) unit that provides an amazing breakthrough in easy, intuitive use. With operation similar to automatic bank teller machines, the system is quickly mastered by shop floor personnel of all experience levels.

- To eliminate any chance for confusion, function descriptions appear on-screen opposite four function keys
- Function displays are controlled by two keys—scrolling is fast and simple
- Ten "custom keys" provide one-stroke activation of functions normally requiring up to 16 keystrokes. This Starrett exclusive is ideal for multiple operations, parts, characteristics, etc. In effect, you can create your own pre-stored personal key codes



**Shop floor inspection flexibility**



**Large memory and easy capacity expansion.** With two to three times the basic capacity of typical collectors, the Advanced Data Collection System can easily handle multiple parts and part characteristics with no re-setup required. It's the only collector with a memory card for economical expansion—another Starrett exclusive.

- Large built-in capacity can store weeks—even months—of data
- Credit-card-sized memory cards simply slip in and out of the unit. Adapters and readers aren't required

- Each 64K memory card stores up to 8,000 readings for future retrieval or transfer to/from other SPC Plus components

**Application versatility for all inspection needs.** The portable 742 System operates on both line and battery power. It can be table or wall mounted for even more flexibility. These four standard features let you satisfy just about any inspection requirements:

- Programmable remote trigger feature allows selection of ports to be included and actuation mode (one port per trigger or ports in sequence). Automatic and manual (foot switch) triggering is available
- Automatic trigger timer allows readings from one or more ports at user-set intervals from one second

to ninety nine hours. Ideal for in-process applications such as wire gaging, etc.

- User-defineable tags give ten options, each defined by the user, for flexible treatment of erroneous or unusual readings. The values can be handled three ways: use; ignore; count in subgroup but exclude in calculations
- Gage math program permits use of plus/minus offsets and multipliers. These adjustments are valuable for scaling, zero offsets, etc.



**Computer upload/download capability**

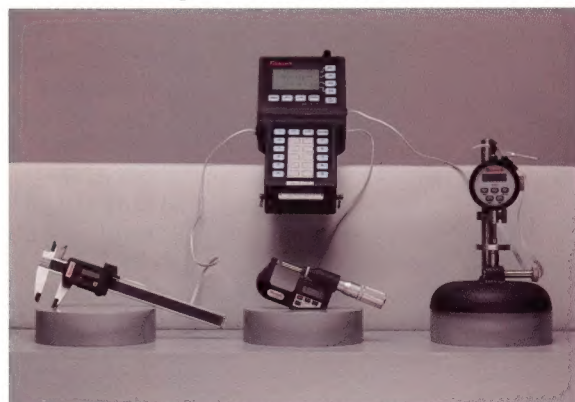
### Other capabilities and features

- Complete alphabetic descriptions of parts, operations, etc.
- Interface with Starrett SPC Plus components and IBM-PC and compatible computers
- Time and date documentation for every reading
- Generous 7-line, 15-characters-per-line display
- High resolution (120 x 64 pixel) LCD for exceptionally clear graphics
- Both 110/120V AC and battery operation
- Shoulder strap for even more convenience
- Sealed keyboard and display
- Built-in "smart charger" eliminates overcharge problems

### SPC charts and reports

- LCD display or sent to printer, terminal or computer
  - X-Bar and R charts
  - X-Bar and S charts
  - Histograms
  - Statistics reports
- Sent to printer, terminal or computer
  - Part data reports
  - Characteristic data reports
  - Complete memory listings

**Multiple electronic tools linked to the 742**





## Starrett 741 Data Multi-Plexer

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The 741 Multi-Plexer functions through an enclosure unit supplied with 8 module ports. The ports provide the versatility to use Starrett tools and tools of other suppliers in any combination on up to 8 devices. It will accept Mitutoyo, Brown & Sharpe, Fowler, C.D.I., Federal, DataMyte and GageTalker units and others. Data collected can be entered into IBM-PC and PC compatibles. The Multi-Plexer package includes 2 Starrett modules, and power supply/charger. SPC capabilities can also be utilized for data analysis with the 741 Multi-Plexer by adding the Starrett 743 SPC Plus software option. Like the Starrett Advanced Data Collection System, the 741 operates on both line and battery power.

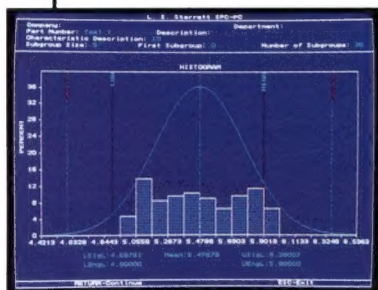


Multiple tool input via 741 to IBM-PC

## Starrett 743 SPC Plus Software

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Finally, with Starrett 743 SPC Plus software there's one powerful, efficient system that combines application versatility and exceptional processing to provide a single solution for all your measurement and process control needs. Designed for the realities of on-the-floor operations, 743 software accepts multiple input from Starrett and other electronic gaging devices and



Histogram chart

instantly displays readings and a full range of basic SPC data, analyses and charts. Programming and operation is simple and straight forward. 743 SPC Plus software does it all—including downloading to computers and other peripherals.

## Programming is fast, easy and adaptable.

Using the approach that has made automatic bank teller machines so popular, the software cuts training time and will be readily accepted by all shop floor personnel. A complete range of programming capabilities let's you tailor the software system to your specific needs.

- Easy software installation and function key operation
- Pop-up windows clearly define options
- "Help" screens available at any point
- Complete file management capabilities
- Scroll quickly through all data
- Selectable report generation
- Handles up to 10 characters per part
- Output to screen or printer
- Operates on IBM-PCs and most compatibles
- Runs on floppy or hard discs
- Easy-to-follow instruction manual



Direct input from 731  
Micrometer to IBM-PC

## Flexible, easy input from multiple sources.

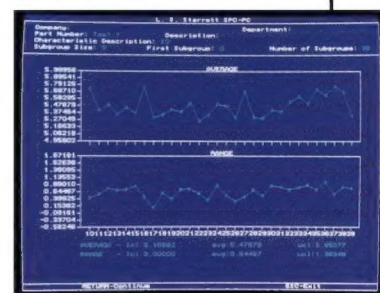
The software gives you the ability to provide inputs from various sources, including the measuring devices you already have, regardless of manufacturer. Data can be provided from:

- Starrett 742 Advanced Data Collection System
- Directly, via Starrett SPC Plus electronic tools
- Electronic devices from other suppliers, using the Starrett 741
- Keyboard entry from the 742 System
- Downloading from other computer systems

**A full range of output capabilities.** The software provides a full range of basic SPC functions in report and chart formats:

X-Bar and R charts, X-Bar and Sigma charts, histograms, frequency distribution charts, capabilities indices, and print-outs of raw data.

Starrett 743 SPC Plus software comes complete with 5 1/4" disc, 3 1/2" disc and user instructions.



X-Bar and Range charts



## Starrett Digital Electronic Micrometers

The famous Starrett reputation for outstanding quality and workmanship has been combined with advanced electronics to provide a family of micrometers with a superb resolution of fifty millionths of an inch. Designed for today's more demanding gaging needs, these electronic micrometers also feature an array of new, productivity-enhancing features. Yet, each one incorporates the rugged construction, smooth operation and uncanny "feel" and balance that have made Starrett micrometers the unmatched standard throughout the world. All electronic micrometers can transmit data to Starrett SPC Plus hardware/software systems, as well as to IBM-compatible PCs.

### Features

Every Starrett electronic micrometer has these exciting new features:

- Data transmission to Starrett SPC Plus hardware and software, and to IBM-compatible PCs
- High-contrast LCD readout with large, .190" high numbers
- Minus sign display for below zero readings
- Attractive and functional no-glare black wrinkle finish on frame
- One-year working battery life



735 Depth Micrometer

763 Micrometer Head

731 8" Micrometer

- Automatic shut-down after two hours of idle time
- High-low limit settings
- "Error" displays and flashing "out-of-tolerance"
- Zero setting at any spindle location
- "Hold" function for readout retention
- Instant inch/millimeter conversion
- "Limits" mode for entering product specifications

Every Starrett electronic micrometer has these long-famous Starrett features:

- Satin chrome finish on thimble and sleeve
- Rigid frame construction and extra rigid one piece spindle
- "Friction thimble" design for uniform contact pressure
- Knurled, easy to use, ring-type thumb locknut for quick, sure locking at any position
- Precision tungsten carbide measuring faces for exceptionally long life

### Specifications

<b>Resolution</b>	.00005" (.001mm)
<b>Accuracy</b>	±.0001" (+.002mm)
<b>Power</b>	Two Rayovac 357 batteries or equivalent
<b>Range</b>	
Per model	1" (25mm)
Twelve-model family	0-12" (0-300mm)



731 on Starrett 206 Stand

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The Starrett electronic micrometer family

Catalog Number	EDP Number	Range Inches	Mmtrs.
Outside Micrometers			
731XFL-1	63855	0-1	0-25
731ZZ-1 (case only)	63874		
731XFLZ-2*	63856	1-2	25-50
731XFLZ-3	63857	2-3	50-75
731XFLZ-4	63858	3-4	75-100
731XFLZ-5	63859	4-5	100-125
731XFLZ-6	63860	5-6	125-150
731XFLZ-7	63861	6-7	150-180
731XFLZ-8	63862	7-8	180-205
731XFLZ-9	63863	8-9	205-230
731XFLZ-10	63864	9-10	230-255
731XFLZ-11	63865	10-11	255-280
731XFLZ-12	63866	11-12	280-305
Outside Micrometer, without input			
732XFL-1	63867	0-1	0-25
732ZZ-1 (case only)	63874		
Depth Micrometer			
735BZ-6RL	63868	0-6	0-150
Micrometer Head, with output			
763FL	63869	0-1	0-25

(\*) "Z" appearing in catalog number indicates that micrometer is furnished with a protective case.

731 Micrometer input to 742 Data Collector







### Starrett 735 Digital Electronic Depth Micrometer

The Starrett electronic depth micrometer has a wide 0 to 6 inch range for measuring the depth of most holes, slots, shoulders and projections. Clear LCD readouts increase the speed and accuracy of such inspections, since dimensions are plainly visible without having to remove fingers from thimble, or the tool away from the workpiece. The 4" base is hardened, ground and lapped for long-lasting precision, and the instrument has all the operational and functional features of the entire family of Starrett Electronic Micrometers. Furnished with set of 6 rods in protective case.

#### Specifications

<b>Range</b>	0-6" (0-150mm)
<b>Resolution</b>	.00005" (.001mm)
<b>Base Length</b>	4" (10mm)



### Starrett 763 Digital Electronic Micrometer Head

The Starrett 1" electronic micrometer head is designed for use on machine tools, fixtures, special gages, tooling and other equipment where micrometer accuracy in settings, adjustments or location is required. Compact design and clear, bright LCD display make this unit adaptable to small spaces and all lighting conditions and the carbide spindle face is micro-lapped for extra precision and durability. The electronic micrometer head has all the operating and functional features of the entire family of Starrett electronic micrometers.

#### Specifications

<b>Range</b>	0-1" (0-25mm)
<b>Resolution</b>	.00005" (.001mm)
<b>Clamping Surface</b>	
length	.750"
diameter	.500"
<b>Length (at zero)</b>	
overall	6 1/4"
shoulder to spindle end	2"
<b>Spindle</b>	
diameter	.250"
extension at zero	1.250"

### Starrett 784 Digital Electronic Internal Micrometers

Many models of Starrett electronic internal micrometers are available as individual units or in convenient sets to cover most bore measurements up to 12 inches for easy, super-accurate hole measurements. All critical components are hardened, ground and lapped for exceptional accuracy and long life. Large capacity models have carbide measuring surfaces for added durability. Large, highly visible readouts and push-button function controls assure easy, quick and convenient operation. A protective box and setting ring is included with each micrometer. A complete line of internal micrometers are also available.

#### Features

- Precision friction ratchet stop for exceptional accuracy and consistency
- Output to other Starrett SPC Plus components
- One-year continuous use on one battery



- Readout hold capability
- Blind bore measurement capability
- Push-button zero reset
- Plus and minus value adjustments
- Instant inch/millimeter conversion
- Rugged, well-balanced frame withstands shop floor rigors



## Starrett 2500 Digital Electronic Indicator

The portable, battery-powered 2500 Digital Electronic Indicator gives fast precise readings throughout the plant. Measurements can be taken in either

direction, while the large LCD readout and rotatable bezel assure fast, easy reading.

No. 2500-1 has a 0.001-inch resolution, while No. 2500-5 features a 0.0005-inch resolution. Both models are shipped with flat backs, and can use all standard backs, contacts and accessories.

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### Features

- Absolute and comparative measurements
- Output to Starrett SPC Plus peripherals for analysis, data collection and hard copy documentation
- Direction selector
- Tolerance limit settings
- Instant inch/millimeter conversion
- Zero setting at any point
- Automatic shutdown after 1 hour
- Readout hold capability
- Conforms to AGD Group 2

### Specifications

<b>Accuracy</b>	
2500-1	$\pm .001"$ ( $\pm .02\text{mm}$ )
2500-2	$\pm .0005"$ ( $\pm .01\text{mm}$ )
<b>Resolution</b>	
2500-1	.001" (.02mm)
2500-2	.0005" (.01mm)
<b>Range</b>	0-1" (0-25mm)
<b>Power</b>	Two Rayovac 357 batteries, or equivalent
<b>Weight</b>	6.5 ounces

Multiple gage input to IBM-PC and printer. Indicators also shown in many ideal Starrett gaging combinations.

## Starrett 722 Digital Electronic Caliper

The patented 722 six-inch digital electronic caliper features a Starrett exclusive microchip, to provide more functions than any other electronic caliper that is made in the U.S.A.. Knife-edge stainless steel contacts provide fast, precise measuring: inside, outside, depth and steps. The measurement rate provides high-speed readout and virtually eliminates stalling. An optional depth attachment converts the 722 into a precision depth gage.

### Features

- Constant display of horizontal bars for easy reading and error reduction—a Starrett exclusive
- Output to Starrett SPC Plus peripherals for analysis, data collection and hard-copy documentation
- Push-button inch/millimeter conversion
- Zero at any position
- Hold measurement capability
- Peak, low and high readings
- Out-of-tolerance display alert
- Hardened stainless steel body

### Specifications

<b>Linear Accuracy</b>	$\pm .001"$ ( $\pm .025\text{mm}$ )
<b>Resolution</b>	.0001" (.001mm)
<b>Range</b>	0-6" (0-150mm)
<b>Power</b>	Two 1.5V batteries

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722 caliper  
cabled to Starrett  
740 processor





## Starrett 720 QC Computer

The Starrett 720 QC Computer incorporates state-of-the-art technology and microcassette capabilities to provide powerful, portable SPC



capabilities virtually anytime and anywhere. The lightweight, compact 720 includes as standard features a 2¼-inch microprinter, a built-in programmable microcassette and twice the memory of comparable QC computers. The 720-5 Starrett SPC Program gives you hard copy reports, data logging and SPC analysis for internal control and customer QC requirements. Weighing just 4½ pounds, the 720 uses rechargeable batteries, with up to 50 hours of operation per charge.

### Features

- Standard keyboard
- Sharp liquid crystal screen with 20" x 4" display
- Built-in printer with text, chart and graph capabilities
- Five-port serial interface handles input from up to five Starrett "SPC Plus" electronic tools
- Serial output for communication to host computer
- Large memory: 32K of ROM and 32K of RAM
- Time and calendar program

### SPC Program

The 720-5 Starrett SPC Program features:

- Output readings
- X-Bar and R charts
- X-Bar and sigma charts
- Histograms
- Frequency distribution tables
- Process capability data, such as CP, CR and CPK

**Multiple Starrett 2500 electronic indicator set up inputting to the 720 computer**



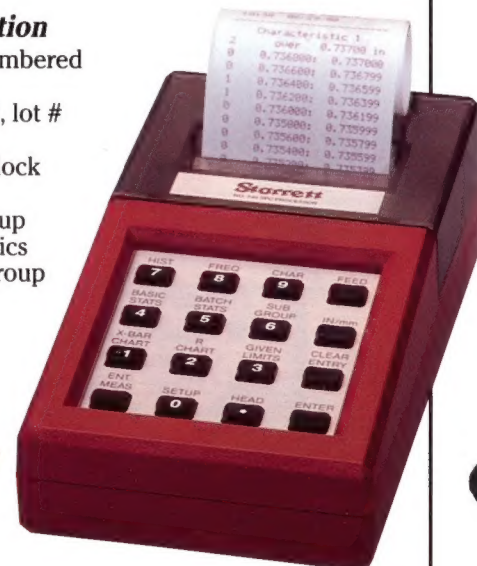
## Starrett 740 SPC Processor

The economical Starrett 740 SPC Processor is versatile and easy to use. Data inputs can be made through the 16-key sealed keyboard or directly from any of the Starrett "SPC Plus" electronic tools. The 2½-inch wide printer provides both a hard copy of gage readings and an SPC analysis in mathematical and chart form. An optional foot switch is available to activate input, and the unit runs on standard 110-120V power.

### SPC documentation

- Sequentially numbered gage readings
- Identifies part #, lot # and operator #
- Provides time clock and date
- Provides use of up to 9 characteristics
- Allows for subgroup sizes of 3 to 99
- Identifies "out-of-tolerance" readings

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### SPC Data Selection

The keyboard is used to select any or all of the following:

- Basis statistics
- Histograms
- Frequency reports
- Batch statistics
- X-Bar charts
- Range charts

**New Starrett 731 electronic micrometer input to the 740 processor**





## Display Monitor

PN 23421, EDP 63640

The large, 14-inch screen displays amber characters on a black background for sharp, clear images under the most difficult lighting conditions. All text, charts and graphs can be reviewed instantly. The monitor features an easy-to-interpret IBM graphics capability, and can be integrated with all Starrett "SPC Plus" products.



## Full 80 Column Printer

A Full 80 Column Printer with 180 CPS and 4K buffer provides clean, clear 8½" x 11" hard copy documentation of data, reports, charts and graphs. The compact printer can be integrated with all Starrett "SPC Plus" products for permanent SPC records.

## Starrett 745 Digital Electronic Depth Gage

The six-inch 745 digital electronic depth gage has been designed for easy, accurate depth measurements of holes, slots and recesses to .0001 of an inch. The removeable hook attachment allows readings from edge of workpiece to edge of slot, groove, shoulder or other I.D. length dimensions. The hook screw is permanently attached to prevent loss—a Starrett exclusive. Optional base extensions expand the 2¾" base to 7 or 12 inches. Both the base and bar are constructed of hardened stainless steel for minimum wear and extended gage life.



### Features

- Constant display of horizontal bars for easy reading—a Starrett exclusive
- Output to Starrett SPC Plus peripherals for analysis, data collection and hard-copy documentation
- Zero at any position
- Push-button inch/millimeter conversion
- Out-of-tolerance display alert
- Hold measurement capability
- Peak, low and high readings
- Bright, sharp LCD readout

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### Specifications

<b>Linear Accuracy</b>	±.001" (+.025mm)
<b>Resolution</b>	.0001" (.001mm)
<b>Range</b>	0-6" (0-150mm)
<b>Power</b>	Rayovac 386 or equivalent

745 depth gage linked to 742 collector

750, 755 height gages hooked to 742 via command button





## Starrett 812 Last Word® Electronic Gage Amplifier

The lightweight, rugged and portable 812 Electronic Gage Amplifier is easy to set up and provides fast, direct digital readout to .00001-inch (.0001mm) with no graduations to count, and no visual interpolations. The 812 is available in single- and double-gaging head models which accommodate Starrett lever and cartridge gaging heads. The single-head model measures or compares single dimensions, while the double-head model performs differential and cumulative gaging.

**AMERICAN MADE** BCD and RS 232C digital output capabilities are provided for interfacing with Starrett "SPC Plus" and other peripherals. Also available are meter (analog) display models.

### Features

- Large 7/16" numbers for easy reading, improved accuracy
- Front-mounted controls for convenience and simplicity
- Inch/millimeter readings signalled by colored lights

### Specifications

#### Digital display models

Readout	.00001" (.0001mm)
Range	±.01000" (±.2000mm)

#### Meter display models

Graduation	.0005 - .000005"
	(.01 - .0001mm)
Range	±.010 - .0001"
	(.200 - .002mm)

## Starrett 750 Digital Electronic Height Gage

The easy to use, six-inch 750 Digital Electronic Height Gage employs a special hardened and ground base that is notched to provide readings from the base bottom up to a full six inches. The 750 also features the Starrett patented capacitance gaging system and hardened stainless steel bar and slide for scribing operations. It comes with a hardened and ground auxiliary scriber that may be replaced with an optional depth attachment for measuring holes, slots and recesses on jigs, fixtures, etc.



### Features - 750

- Constant display of horizontal bars for easy reading—a Starrett exclusive
- Output to Starrett SPC Plus peripherals for analysis, data collection and hard-copy documentation
- Fine adjustment thumb roll and thumb-screw slide lock for scribing operations
- Zero setting at any position
- Instant inch/millimeter conversion
- Hold measurement capability
- Out-of-tolerance display alert
- Peak, low and high readings

### Specifications

Linear Accuracy	±.001" (±.025mm)
Resolution	.0001" (.001mm)
Range	0-6" (0-150mm)
Power	Two 1.5V batteries

## Starrett 755 Digital Electronic Height Gage

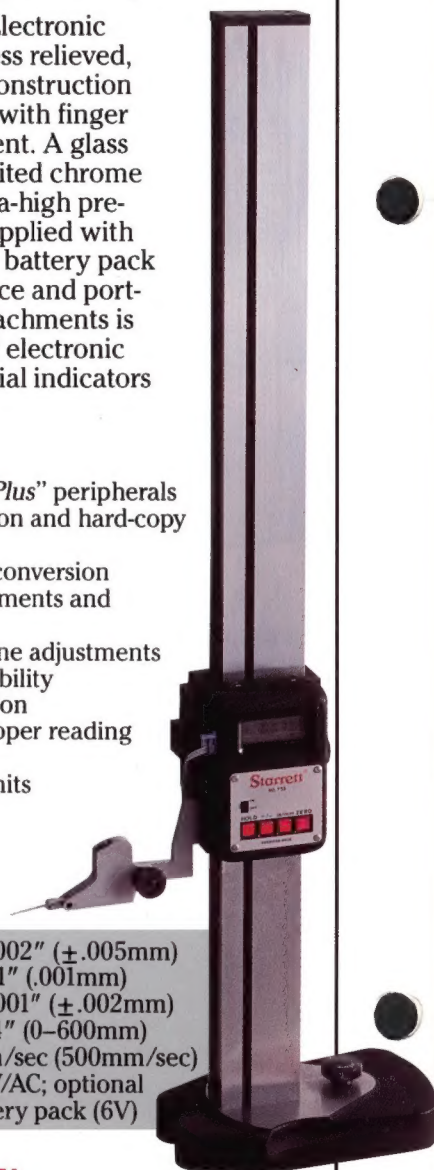
The 24-inch 755 Digital Electronic Height Gage features stress relieved, single column solid bar construction and vibration proof base with finger grooves for easy movement. A glass scale with vacuum-deposited chrome graduations provides ultra-high precision. The 755 can be supplied with an optional rechargeable battery pack for even more convenience and portability. A full range of attachments is available for mounting of electronic indicator gaging heads, dial indicators and scribers.

### Features - 755

- Output to Starrett "SPC Plus" peripherals for analysis, data collection and hard-copy documentation
- Instant inch/millimeter conversion
- Split nut for quick adjustments and rapid traverse
- Knob on base for ultra-fine adjustments
- Hold measurement capability
- Zero setting at any position
- "±" indication assists proper reading
- Large, easy-to-read LCD
- Special base design permits readings from base over full range

### Specifications

Accuracy	±.0002" (±.005mm)
Resolution	.0001" (.001mm)
Repeatability	±.0001" (±.002mm)
Range	0-24" (0-600mm)
Max. Meas. Speed	20 in/sec (500mm/sec)
Power	110V/AC; optional battery pack (6V)



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## Starrett 785 Height Measurement System

The 785 is the most advanced system of its kind, incorporating many superb features, such as an independent, three-speed motorized probe to provide faster, more accurate and repeatable measurements that eliminate manual settings and operator-to-operator variations.

Unlike competitive gages, the 785 is cordless, transferring measurement data via infrared transceivers to a powerful computer featuring an easy-to-use symbol keyboard with nine measurement functions and manual or automated self-teach programming. This makes for a wireless operation of up to six feet away. Work surfaces remain clear, for easy maneuverability. The gage also has a built-in thermometer for thermal compensations, ensuring accuracy under varying ambient conditions.

A bore measurement is a perfect illustration of the 785's powerful, simple operation through automatic cycling. Once the probe is located in any off-center position, all probe movement is controlled by the push of the computer key. Bore size and center point are automatically calculated and displayed on the computer screen. Measurements can be manipulated by four function keys on the computer to provide distances, centerlines, angles, bolt hole patterns, etc.

In many cases, the 785 Height Measurement System is the ideal third alternative between the more limited capability of conventional height gages and an overequipped, cost prohibitive CMM for two-axis height measurements. Automotive and aircraft requirements are but two of the many two-axis applications for which the 785 is ideal.

The gage, available in two standard sizes (31.4"/800mm;

39.4"/1000mm), can be easily and precisely moved across the surface plate during measurement due to a built-in air cushion pump in the base. The gage provides an unrivaled bandwidth accuracy of .00016" or .004mm, and repeatability of .00002" (.0004mm). Four resolution choices are available ranging from .0005" to .00001" (.005mm to .0001mm). Larger gage sizes and many other packages are also available.

### Easy To Use

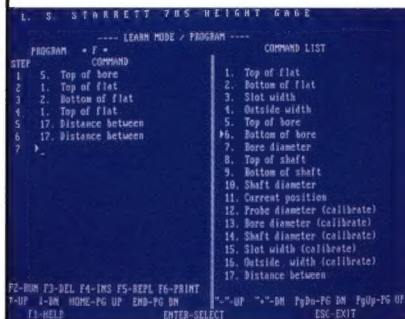
**Programs.** You can choose from three basic programs to handle a variety of measuring routines—manual, Self-Teach and Self-Teach SPC.

For manual programming, the operator can input up to 50 functions along with required dimensions and tolerances. In Self-Teach mode, programming is completely automatic. The powerful, compact computer memorizes all probe motion sequences needed to complete a part program. You position the part and the 785 does the rest. All Starrett programs, regardless of complexity, can be recalled at the push of a button.

In addition to average size and standard deviation, the 785 Self-Teach SPC Programs provide ample reporting like histograms, X-Bar, Range and Sigma charts. This capability is all built into the 785's powerful computer. The SPC program can collect and store over 4,500 individual measurements on 100 features. All SPC functions can be printed out or displayed on a 14" amber screen monitor and/or an 80-column printer with 180 characters per second speed and a 4K buffer. The monitor has easy-to-interpret "built-in" IBM graphics capability. All existing 785

A and B systems can be easily updated to the Self-Teach SPC program for minimal cost, retrofitted at the L.S. Starrett Company headquarters in Athol, Massachusetts.

Other packages besides A, B and C include a new battery pack option. This allows continual gage use, enabling the user to avoid the inconveniences of plugging the gage in for recharging.



### IBM-PC compatibility

785 full system components

785 800mm gage and computer



## Starrett SPC Plus Cable Connection Guide

Starrett Catalog Numbers For Required Cables Appear In The Appropriate Matrix Boxes.

Input Devices/Computers/Processors/Collectors								
740 SPC Processor	720 QC Computer	742 Advanced Data Collection System	741 Data Multi-Plexer	Display Monitor	80 Column Printer P/N 23097	722A Printer	IBM-PC/PC Compatible Cables	720-3 Foot Switch

### Output Devices/Tools

722 Caliper	22650	22650	22650	22650	N/A	N/A	22650	22650 *	N/A
731 Micrometers	22911	22911	22911	22911	N/A	N/A	22911	22911 *	N/A
735 Depth Micrometer	22911	22911	22911	22911	N/A	N/A	22911	22911 *	N/A
745 Depth Gage	22650	22650	22650	22650	N/A	N/A	22650	22650 *	N/A
750 Height Gage	22650	22650	22650	22650	N/A	N/A	22650	22650 *	N/A
755 Height Gage	22950	22950	22950	22950	N/A	N/A	22950	22950 *	N/A
763 Micrometer Head	22911	22911	22911	22911	N/A	N/A	22911	22911 *	N/A
784 Internal Micrometer	Available May 91				Available May 91				
2500 Indicator	22911	22911	22911	22911	N/A	N/A	22911	22911 *	N/A
812 Gage Amplifier	22858	22651	22858	22858	N/A	N/A	N/A	22651 *	N/A
785 Height Meas. System	N/A	N/A	23579 **	23579 **	23419	23098	N/A	23085	N/A

\*\* W/DataByte # 1 Module # 60669

### Computers/Processors/Collectors

740 SPC Processor	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	720-3
720 QC Computer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	99415	720-3
742 Adv. Data Collect. Sys.	N/A	N/A	N/A	N/A	60642	60643	N/A	60642	720-3
741 Data Multi-Plexer	N/A	N/A	N/A	60642	N/A	N/A	N/A	60642	720-3
Display Monitor	N/A	N/A	60642	N/A	N/A	N/A	N/A	N/A	N/A
Printer	N/A	N/A	60643	N/A	N/A	N/A	N/A	60643	N/A
IBM-PC/PC Cables	N/A	99415	60642	60642	N/A	60643	N/A	N/A	N/A
Foot Switch	720-3	720-3	720-3	720-3	N/A	N/A	N/A	N/A	N/A

\* **Interface Module P/N 99413.** Interfaces Starrett electronic tools to a printer, computer terminal or any other device that supports RS 232C. The P/N 99413 package includes a DOS-formatted 5 1/4 floppy disc + 3 1/2 disc and a listing of a simple basic language program which, when run on an IBM-PC or clone, will receive and display output of Starrett electronic tools on the PC screen and/or printer.

### Gage Adapter Modules For Starrett Advanced Data Collection System.

Manufacturer	Catalog No.	EDP No.
Starrett SPC Plus	60667	63845
Brown & Sharpe	60672	63849
Chicago Dial Indicator	60673	63850
Datamte # 1	60669	63847
Datamte # 2	60670	63848

Manufacturer	Catalog No.	EDP No.
Federal Maxum	60674	63851
GageTalker	60675	63852
Mitutoyo	60668	63846
RS 232C	60676	63854

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